

## ENGINEERING MANAGEMENT SUPPORT INC.

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December 10, 2014

VIA: Electronic Mail

U.S. Environmental Protection Agency  
Region VII SUPR/MOKS  
11201 Renner Boulevard  
Lenexa, KS 66219

**ATTENTION:** Mr. Bradley Vann

**SUBJECT: Monthly Status Report – November 2014**  
**West Lake Landfill Operable Unit 1, Bridgeton, Missouri**

Dear Mr. Vann,

On behalf of Cotter Corporation (N.S.L.), Bridgeton Landfill, LLC., Rock Road Industries, Inc., and the United States Department of Energy (the "Respondents"), Engineering Management Support Inc. (EMSI) submits the attached status report for the month of November 2014 as required by paragraph 56 of the West Lake Landfill Administrative Order on Consent, Docket No. VII-93-F-005. If you have any questions or desire additional information related to this status report or any other aspect of the project, please do not hesitate to contact me.

Sincerely,  
ENGINEERING MANAGEMENT SUPPORT, Inc.

A handwritten signature in black ink, appearing to read 'P. Rosasco', with a stylized flourish extending from the end.

Paul V. Rosasco, P.E.

Distribution:

Shawn Muenks - Missouri Dept of Natural Resources  
Victoria Warren – Republic Services, Inc.  
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Philip Dupre – U.S. Department of Justice  
Dan Feezor – Feezor Engineering  
Mike Bollenbacher – Auxier & Associates

**Monthly Status Report – November 2014**  
**West Lake Landfill Operable Unit 1**  
**Bridgeton, Missouri**

This status report has been prepared by Engineering Management Support Inc. (EMSI) on behalf of Cotter Corporation (N.S.L.), Bridgeton Landfill, LLC (formerly known as Laidlaw Waste Systems [Bridgeton] Inc.), Rock Road Industries, Inc., and the United States Department of Energy (the “Respondents”) for Operable Unit - 1 (OU-1) at the West Lake Landfill as required by paragraph 56 of the West Lake Landfill Administrative Order on Consent, Docket No. VII-93-F-005.

## **1. Work Performed During November 2014**

### Project Planning

A draft of the Core Sampling (Phase 1B, 1C and 2) Work Plan for the isolation barrier investigation was submitted to EPA and MDNR on December 18, 2013. EPA comments on the draft work plan were received on December 26, 2013. The final Phase 1B, 1C and 2 Core Sampling Work Plan was submitted on January 8, 2014.

EPA comments on the various work plans prepared for the additional Supplemental Feasibility Study evaluations were received on August 16, 2013. A meeting was held with EPA and MDNR on September 24, 2013 to discuss comments on the work plans for the additional SFS evaluations. Revisions to the work plans for evaluations of alternative Area 2 depths and volumes, apatite treatment technologies and additional discount rate were prepared and submitted to EPA and MDNR on October 31, 2013. A revised work plan for evaluation of alternative landfill cover designs was submitted to EPA and MDNR on February 21, 2014. A revised work plan for performance of fate and transport evaluations was submitted to EPA and MDNR on September 4, 2014. EPA approval of the work plans for additional discount rate evaluations and evaluation of alternative landfill cover designs was received on September 19, 2014.

A draft Remedial Design Work Plan was submitted to EPA in November 2008. In accordance with direction from EPA, all work on design of the ROD-selected remedy has been put on hold.

### Fieldwork - Sample Collection/Analysis

No field work was conducted during this period.

### Report Preparation

The monthly progress report for October 2014 was prepared and submitted to EPA and MDNR on November 10, 2014.

During November, the following work was also performed:

- Evaluation of alternative landfill cover designs was conducted during this reporting period;
- Preparation of a comprehensive groundwater report;
- Preparation of a summary report for the Phase 1 drilling and sampling investigation of potential areas for locating a thermal/isolation barrier between the North Quarry area of the Bridgeton Landfill and West Lake Landfill Area 1; and
- Work on assembling, verifying and assembling historic site data into a form suitable for loading into EQuIS.

### Project Management

None.

### Meetings

A meeting and site visit was held with EPA's new Regional Project Manager, Mr. Bradley Vann, and Mr. Matt Jefferson on November 17, 2014.

### Correspondence

None.

## **2. Analytical Data Collected During This Reporting Period**

Analytical results of a sample obtained from the decontamination water storage tank associated with the Isolation Barrier Phase I drilling and sampling activities were received during this period. The analytical report is being submitted with this monthly status report.

## **3. Work Scheduled to be Performed during December 2014 and January 2015**

The following activities will be performed during December 2014 and January 2015:

- Preparation of a summary report that presents the data from the four additional groundwater monitoring events (July/August 2012, April 2013, July 2013, and October 2013) and provides interpretation of the results for the four events;
- Evaluation of the potential application of an alternative landfill cover that incorporates a geosynthetic clay liner (GCL) into the design of the cover for OU-1;
- Preparation of the Bridgeton Landfill Thermal Isolation Barrier Investigation Phase 1 Report that summarizes the results of the Phase 1 drilling and sampling associated with investigation of potential areas for locating a thermal/isolation barrier; and
- Continue work on assembling, verifying and assembling historic site data into a form suitable for loading into EQUIS.

#### **4. Problems Encountered**

None.